

16. The program storage device of claim 5 wherein the second frequency spectrum associated with the second portion of the seismic traces corresponding to the second window is generated using either Fast Fourier transform, Cosine Correlation Transform, or Wavelet Transform.

17. The apparatus of claim 9 wherein the second means generates the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

18. The apparatus of claim 9 wherein the second means generates the second frequency spectrum associated with the second portion of the seismic traces corresponding to the second window using either Fast Fourier transform, Cosine Correlation Transform, or Wavelet Transform.

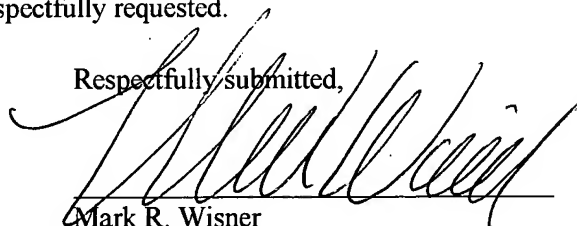
#### REMARKS

Applicant appreciates the allowance of claims 1, 5, and 9 in the Notice of Allowance mailed in the captioned application on March 18, 2003. However, this Preliminary Amendment presents new claims 13 – 18 to more fully claim that which Applicant regards as the invention.

Applicant also encloses formal drawings as required by the Notice of Allowability. However, the Form PTO 948 referred to on line 8 of the Notice of Allowability was not mailed to Applicant with the Notice of Allowability (note that the listing of Attachments at the bottom of the PTO-37 did not check the box indicating that the Form PTO 948 was attached). Applicant has therefore enclosed a set of drawings correcting the informalities that were apparent to Applicant. If Applicant was not successful in addressing all of the informalities listed on the Form PTO 948, Applicant respectfully requests that the requirement for drawing changes be held in abeyance until such time as a copy of the Form PTO 948 is mailed to Applicant. 37 C.F.R. 1.85.

Entry of the enclosed formal drawings, as well as the above amendments to the claims, consideration of the remarks set out herein, early and favorable action on the claims, and passage of the application to issuance are all respectfully requested.

Respectfully submitted,



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